SVETLANA TECHNICAL DATA

SV300B

Low-Mu Audio Power Triode



The Svetlana SV300B is a power triode intended for use in class A, AB or B audio amplifiers. It is one of the lowest-distortion tubes ever made, and is a close duplicate of the original Western Electric™ 300B.

The Svetlana SV300B uses ultra-pure carbonized nickel plate material and a proprietary oxide coating on the filament to give Western Electric™-like performance. The internal structure is well-supported and is aligned with respect to the base pins to avoid internal shorts in equipment designed for horizontal tube mounting. The filament is center-tapped to insure low hum.

The Svetlana SV300B is manufactured in Russia at the Svetlana factory in St. Petersburg. The strict manufacturing and quality controls at the Svetlana plant assure functionality and sound as good as Western Electric™ manufactured products.

Characteristics

Electrical

Filament:	*Oxide-coated tungsten*	
Voltage (AC or DC)	*5.0±0.3*	*V*
Current	*1.2*	*A*
Amplification factor	*3.85*	
Transconductance	*5500*	*µS*
Plate resistance	*700*	*ohms*
Interelectrode capacitances (typical), with filament grounded :		
Grid to plate	*15*	*pF*
Grid to filament	*9*	*pF*

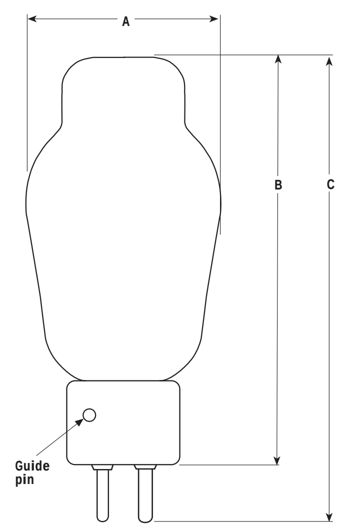
Mechanical

Cooling	*Radiation and convection*
Base	*standard small four pin*
Basing diagram	*JEDEC 4D*
Socket	*Svetlana SK4A or equivalent*
Operating position:	
	Axis vertical, base down or horizontal with pins 1 and 4 in horizontal plane
Nominal dimensions:	
Diameter	*59.0mm (2.3125 in)*
Base to top	*137.2 mm (5.4063 in)*
Overall height	*152.5 mm (6.0 in)*
Net weight	*90 gm*

Maximum Ratings

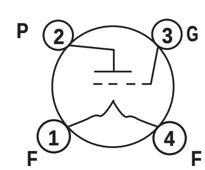
DC plate voltage	*450*	*V*
Maximum signal DC plate current	*100*	*mA*
Plate dissipation	*40*	*W*

Svetlana Outline drawing



Dimensional Data		
Dim.	Millimeters	Inches
A	59.0	2.3125
C	152.5	6
B	137.2	5.4063

Base pin connections bottom view



1 Filament
2 Plate
3 Grid
4 Filament

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Svetlana SV300B
Low-Mu Audio Power Triode

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Typical Operation, Class A, Audio Amplifier

Plate voltage	*450*	*V*
Grid voltage	*-100*	*V*
Peak grid drive	*200*	*VP-P*
Plate current, no signal	*60*	*mA*
Plate current, max signal	*65*	*mA*
Effective load resistance	*5500*	*ohms*
Distortion at 1 watt into 8 ohms	*0.10*	*%*
Power output at 5% distortion	*10*	*W*

**Notes: The internal structure is aligned with respect to the base pins to avoid internal shorting problems in equipment designed for horizontal mounting. Pins 1 and 4 should be in a horizontal plane when mounting the device horizontally.*

